

## Datasheet: MCA358GT

**BATCH NUMBER 153603**

<b>Description:</b>	MOUSE ANTI HUMAN F-ACTIN
<b>Specificity:</b>	ACTIN F TYPE
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	NH3
<b>Isotype:</b>	IgM
<b>Quantity:</b>	50 µg

### Product Details

#### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1 / 10
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
Immunofluorescence	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

#### Target Species

Human

#### Species Cross Reactivity

Reacts with: Rabbit, Rat, Mouse

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

#### Product Form

Purified IgM - liquid

#### Preparation

Purified IgM prepared from tissue culture supernatant

#### Buffer Solution

Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgM concentration 1.0 mg/ml
<b>Immunogen</b>	Human monocytes and U937 cell line.
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">P60709</a>    <a href="#">Related reagents</a></p> <p><a href="#">P63261</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">60</a> ACTB    <a href="#">Related reagents</a></p> <p><a href="#">71</a> ACTG1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	ACTB, ACTG
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human F-Actin antibody, clone NH3</b> recognizes human Filamentous actin (F-actin), the polymeric form of actin.. Mouse anti Human F-Actin antibody, clone NH3 binds to the N-terminal region of actin, but not to the extreme N-terminal 40 amino acids.</p> <p>In tissue sections the antibody stains the cytoplasm of macrophages strongly, and gives granular, localized nuclear staining of all cell types.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Dransfield, I. <i>et al.</i> (1988) Initial characterization of an anti-actin monoclonal antibody (NH3). <a href="#">Biochem. Soc. Trans. 16: 163-164.</a></li> <li>2. Allen, K.M. &amp; Haworth, S.G. (1989) Cytoskeletal features of immature pulmonary vascular smooth muscle cells: the influence of pulmonary hypertension on normal development. <a href="#">J Pathol. 158 (4): 311-7.</a></li> <li>3. McCarthy, A.M. <i>et al.</i> (2006) Loss of cortical actin filaments in insulin-resistant skeletal muscle cells impairs GLUT4 vesicle trafficking and glucose transport. <a href="#">Am J Physiol Cell Physiol. 291: C860-8.</a></li> <li>4. Bhonagiri, P. <i>et al.</i> (2011) Evidence coupling increased hexosamine biosynthesis pathway activity to membrane cholesterol toxicity and cortical filamentous actin derangement contributing to cellular insulin resistance. <a href="#">Endocrinology. 152: 3373-84.</a></li> <li>5. Fang, S.H. <i>et al.</i> (2019) Relationship of <math>\alpha</math>2-Macroglobulin with Steroid-Induced Femoral Head Necrosis: A Chinese Population-Based Association Study in Southeast China. <a href="#">Orthop Surg. 11 (3): 481-486.</a></li> <li>6. Chen, X. <i>et al.</i> (2013) Molecular characterization of severin from <i>Clonorchis sinensis</i> excretory/secretory products and its potential anti-apoptotic role in hepatocarcinoma PLC cells. <a href="#">PLoS Negl Trop Dis. 7 (12): e2606.</a></li> </ol>
<b>Storage</b>	Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA358GT">https://www.bio-rad-antibodies.com/SDS/MCA358GT</a> 10040
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgM (STAR138...) [Alk. Phos.](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

### Recommended Negative Controls

[MOUSE IgM NEGATIVE CONTROL \(MCA692\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
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